

Please add the following new claims:

Rule  
1.26

~~101.~~ (Added) An antibody immunoreactive with a 5-enolpyruvylshikimate-3-phosphate synthase enzyme, the enzyme comprising the sequence domains:

-R-X<sub>1</sub>-H-X<sub>2</sub>-E- (SEQ ID NO:37), in which

X<sub>1</sub> is G, S, T, C, Y, N, Q, D or E;

X<sub>2</sub> is S or T; and

-G-D-K-X<sub>3</sub>- (SEQ ID NO:38), in which

X<sub>3</sub> is S or T; and

-S-A-Q-X<sub>4</sub>-K- (SEQ ID NO:39), in which

X<sub>4</sub> is A, R, N, D, C, Q, E, G, H, I, L, K, M, F, P, S, T, W, Y or V; and

-N-X<sub>5</sub>-T-R- (SEQ ID NO:40), in which

X<sub>5</sub> is A, R, N, D, C, Q, E, G, H, I, L, K, M, F, P, S, T, W, Y or V.

~~102.~~ (Added) The antibody of claim 101, wherein X<sub>1</sub> is D or N; X<sub>2</sub> is S or T; X<sub>3</sub> is S or T; X<sub>4</sub> is V, I or L; and X<sub>5</sub> is P or Q.

~~103.~~ (Added) The antibody of claim 101, wherein the enzyme comprises SEQ ID NO:3.

~~104.~~ (Added) The antibody of claim 101, further defined as a polyclonal antibody.

~~105.~~ (Added) The antibody of claim 101, further defined as a monoclonal antibody.

~~106.~~ (Added) A method of detecting a 5-enolpyruvylshikimate-3-phosphate synthase enzyme in a sample, the method comprising:

selecting a sample suspected of containing a 5-enolpyruvylshikimate-3-phosphate synthase enzyme;

contacting the sample with an antibody to form an enzyme-antibody complex; and

detecting the presence of the enzyme-antibody complex; wherein the antibody is immunoreactive with SEQ ID NO:3.

~~107.~~ (Added) A method of detecting a 5-enolpyruvylshikimate-3-phosphate synthase enzyme in plant cells or plant tissue, the method comprising: